ABSTRACT OF THE DISCLOSURE

A process for the treatment of a light cracked naphtha is disclosed wherein the light cracked naphtha is first subjected to thioetherification and fractionation into two boiling fractions. The lower boiling fraction is removed as overheads for later recombination with the product and the higher boiling fraction is combined with a heavy cracked naphtha and subjected to simultaneous hydrodesulfurization and fractionation to separate the higher boiling fraction from the heavy cracked naphtha which is recycled. The recycled heavy cracked naphtha is eventually desulfurized and hydrogenated to produce a clean solvent which washes the catalyst and extends catalyst life.